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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,930	10/18/2004	Fabio P. Bertolotti	4778/PCT	2527
21553	7590 02/13/2006		EXAMINER	
FASSE PATENT ATTORNEYS, P.A.			DINH, TIEN QUANG	
P.O. BOX 726 HAMPDEN, ME 04444-0726			ART UNIT	PAPER NUMBER
			3644	
			DATE MAILED: 02/13/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	· · · · · · · · · · · · · · · · · · ·	Application No.	Applicant(s)			
Office Action Summary		10/511,930	BERTOLOTTI, FABIO P.			
		Examiner	Art Unit			
		Tien Dinh	3644			
Period fo	The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING Donsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period or re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed the mailing date of this communication. D (35 U.S.C. § 133)			
Status						
2a) <u></u>	Responsive to communication(s) filed on <u>23 N</u> This action is <b>FINAL</b> . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.  nce except for formal matters, pro				
Dispositi	on of Claims					
5)□ 6)⊠ 7)□ 8)□ <b>Applicati</b> 9)□	Claim(s) 1-31 is/are pending in the application.  4a) Of the above claim(s) 28-30 is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-27 and 31 is/are rejected.  Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or on Papers  The specification is objected to by the Examine The drawing(s) filed on is/are: a) according to a content of the provided series of the specification of the specification is objected to by the examine the drawing(s) filed on is/are: a) according to a content of the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing(s) filed on is/are: a) according to the specification is objected to by the examine the drawing the specification is objected to by the examine the drawing the specification is objected to by the examine the drawing the specification is objected to by the examine the drawing the specification is objected to by the examine the drawing the specification is objected to by the examine the drawing the specification is objected to by the examine the specification is objected to be a specification to a specification is objected to be a specification to a specification the specification is objected to be a specification to a specification the	vn from consideration. r election requirement. r. epted or b) □ objected to by the E				
11)□ .	Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	ion is required if the drawing(s) is obj	ected to. See 37 CFR 1.121(d).			
•	·	and the attached office	, WHO I WITH I TO-192.			
Priority under 35 U.S.C. § 119  12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.  2. Certified copies of the priority documents have been received in Application No  3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.						
2) 🔲 Notice 3) 🔯 Inform	e of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) No(s)/Mail Date 7/5/05.	4) Interview Summary ( Paper No(s)/Mail Date 5) Notice of Informal Pate 6) Other:				

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#### **DETAILED ACTION**

#### Election/Restrictions

Applicant's election of species A in the reply filed on 11/23/05 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 28-30 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 11/23/05.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-6, 10, 11, 12-24 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Anxionnaz.

Anxionnaz discloses an aircraft having an airfoil with perforations that are spacially arranged in elongated bundles. The perforations are slots that have long axes that are parallel to each other. The arrangements of the slots of Anxionnaz anticipate the claimed subject matters.

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Re claims 6, 13-15, please note that the use of certain size slots merely involved routine steps that one skilled in the art would have used to make sure that the boundary layer over the aircrafts are optimized to reduce drag and improve maneuverability. Please see figures 5, 6, and 8 for the anticipation of the claims. Please note that Anxionnaz's system is capable of producing flow disturbances that undergo mutual destructive interference at least at one or more selected wavelengths. The arrangements of the spatial patterns allow minimum excitation of flow instabilities and have a spatial spectrum essentially absent of energy at one or more wavelengths.

Claims 1-23, 25-27, and 31 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Pfennig et al.

Pfennig et al discloses an aircraft having an airfoil with perforations that are spacially arranged in elongated bundles. The perforations are slots that have long axes that are parallel to each other. The arrangements of the slots of Pfennig et al anticipate the claimed subject matters. Re claims 6, 13-15, please note that the use of certain size slots merely involved routine steps that one skilled in the art would have used to make sure that the boundary layer over the aircrafts are optimized to reduce drag and improve maneuverability. Please note that Pfennig et al's system is capable of producing flow disturbances that undergo mutual destructive interference at least at one or more selected wavelengths. The arrangements of the spatial patterns allow minimum excitation of flow instabilities and have a spatial spectrum essentially absent of energy at one or more wavelengths. See figure 1.

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Claims 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Pfennig et al in view of Perry.

Pfennig et al discloses all claimed parts except for the round holes. However, Perry discloses that round holes used to control the boundary layer is well known.

It would have been obvious to one skilled in the art to have used round holes in Pfennig et al's system as taught by Perry as a substitution of parts.

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Lachmann, Patel et al, Coffinberry, and Valyi disclose boundary control means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tien Dinh whose telephone number is 571-272-6899. The examiner can normally be reached on 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Teri Luu can be reached on 571-272-7045. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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